

Problems in Function Visualization

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Computer software, being a valuable source in function visualization, frequently provides wrong graphing or unable to discover and show some features of the modeled function.

Especially it confuses to provide an adequate view of

- discontinuous,
- high dimensional and
- many-valuate

functions.

This paper presents examples and analysis of typical lacks of existing software and offers few ways to overcome them. We discuss and present different ways of modeling functions with mentioned problematic features in Calculus, Complex Analysis and Linear Algebra studies. Proposed solutions are illustrated by pilot version of the author's program "VisuMatica".